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Notice of Allowability

Application No.

09/734,040

Applicant(s)

VILANDER ET AL.

Examiner

Yasin M. Barqadle

Art Unit

2153

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 06/06/2007.
2. ☒ The allowed claim(s) is/are 41-47, 49, 50 and 56.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

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Examiner's Amendment

1. An examiner's amendment to the record is attached. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Attorney H. Warren Burnam, Jr. (Reg. 29,366)) On August 20, 2007.

In the claims:

Please cancel claims 59-61 in addition to previously cancelled claims.

Please amend the claims as attached.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yasin Barqadle whose telephone number is 571-272-3947. The examiner can normally be reached on 9:00 AM to 5:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Burgess can be reached on 571-272-3949. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and 703-746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either private PAIR or public PAIR system. Status information for unpublished applications is available through private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

YB

Art Unit 2153

ABDULAH SALAD
PRIMARY EXAMINER

41. (Currently Amended) A telecommunications system having a protocol architecture over an interface between nodes of the telecommunications system, wherein for a connection with a user equipment unit a protocol stack of the protocol architecture in the transport layer comprises:

a link layer protocol;

Internet Protocol on top of the link layer protocol;

UDP Protocol on top of the Internet Protocol;

wherein the system is arranged to exchange Asynchronous Transfer Mode (ATM) and ATM Adaptation Layer 2 (AAL2) protocols with the Internet Protocol and the UDP Protocol ~~are utilized in lieu of Asynchronous Transfer Mode (ATM) and ATM Adaptation Layer 2 (AAL2) protocols;~~

wherein the interface having the protocol architecture is one of: (1) an interface between a core network and a radio access network which carries circuit switched connections; (2) an interface between a radio network controller (RNC) and a base station; and (3) an interface between two radio network controllers (RNCs);

wherein the connection is carried as a circuit switched connection over a radio interface between the user equipment unit and the radio access network; and

wherein UDP port numbers of the UDP Protocol are used as connection identifiers.

42. (Previously Presented) The system of claim 41, the Internet Protocol is immediately above the link layer protocol in the transport layer.

43. (Currently Amended) The system of claim 41, wherein the connection is a ~~circuit switched~~ circuit switched connection and the interface having the protocol architecture carries the connection as a circuit switched connection.

44. (Previously Presented) The system of claim 41, wherein the link layer protocol is Ethernet protocol.

45. (Previously Presented) The system of claim 41, wherein in the Internet Protocol a sequence number is carried in one of an IP option field and a Ipv6 extension header, the sequence number being used for rearranging incoming IP datagrams.

46. (Previously Presented) The system of claim 41, wherein the protocol stack of the protocol architecture further comprises, in a radio network layer, a frame handling protocol on top of the UDP Protocol.

47. (Currently Amended) A telecommunications system having a protocol architecture over an interface between nodes of the telecommunications system, wherein for a connection with a user equipment unit a protocol stack of the protocol architecture in the transport layer comprises:

a link layer protocol;

Internet Protocol on top of the link layer protocol;

UDP Protocol on top of the Internet Protocol; and

RTP Protocol on top of the UDP Protocol, and

wherein the system is arranged to exchange Asynchronous Transfer Mode (ATM) and ATM Adaptation Layer 2 (AAL2) protocols with the Internet Protocol, the UDP Protocol, and the RTP protocol~~are utilized in lieu of Asynchronous Transfer Mode (ATM) and ATM Adaptation Layer 2 (AAL2) protocols;~~

wherein the interface having the protocol architecture is between a radio access network and a core network and carries circuit switched connections;

wherein the connection is carried as a circuit switched connection over a radio interface between the user equipment unit and the radio access network; and

wherein in the RTP Protocol one synchronization source (SSRC) identifier is allocated to each circuit switched connection between the node in the radio access network and the node in the core network.

48. (Cancelled)

49. (Previously Presented) The system of claim 47, wherein the RTP Protocol compresses plural RTP packets in an IP datagram.

50. (Currently Amended) A method of operating a telecommunications system having a protocol architecture over an interface between nodes of the telecommunications system, the interface having the protocol architecture being one of: (1) an interface between a core network and a radio access network which carries circuit switched connections; (2) an interface between a radio network controller (RNC) and a base station; and (3) an interface between two radio network controllers (RNCs); the method comprising:

including in a protocol stack of the protocol architecture in the transport layer for a connection with a user equipment unit, the following:

a link layer protocol;

Internet Protocol on top of the link layer protocol;

UDP Protocol on top of the Internet Protocol;

wherein the system is arranged to exchange Asynchronous Transfer Mode (ATM) and ATM Adaptation Layer 2 (AAL2) protocols with the Internet Protocol and the UDP Protocol using the protocol stack for replacing Asynchronous Transfer Mode (ATM) and ATM Adaptation Layer 2 (AAL2) protocols conventionally employed as transport layer protocols over the interface;

wherein the connection is carried as a circuit switched connection over a radio interface between the user equipment unit and the radio access network; and
using UDP port numbers of the UDP Protocol as connection identifiers.

51. (CANCELED)

52. (CANCELED)

53. (CANCELED)

54. (CANCELED)

55. (CANCELED)

56 (Currently Amended) A method of operating a telecommunications system having a protocol architecture over an interface between a radio access network and a core network which carries circuit switched connections, the method comprising:

including in a protocol stack of the protocol architecture in the transport layer for a connection with a user equipment unit, the following:

- a link layer protocol;
- Internet Protocol on top of the link layer protocol;
- UDP Protocol on top of the Internet Protocol; and
- RTP Protocol on top of the UDP Protocol;

wherein the system is arranged to exchange Asynchronous Transfer Mode (ATM) and ATM Adaptation Layer 2 (AAL2) protocols with the Internet Protocol, the UDP Protocol, and the RTP protocol using the protocol stack for replacing Asynchronous Transfer Mode (ATM) and ATM Adaptation Layer 2 (AAL2) protocols conventionally employed as transport layer protocols over the interface;

wherein the connection is carried as a circuit switched connection over a radio interface between the user equipment unit and the radio access network; and

wherein in the RTP Protocol one synchronization source (SSRC) identifier is allocated to each circuit switched connection between the node in the radio access network and the node in the core network.

- 57. (CANCELED)
- 58. (CANCELED)
- 59. (CANCELED)
- 60. (CANCELED)
- 61. (CANCELED)